

PERMANENT MAGNET ROTOR OF HERMETIC MOTOR FOR REFRIGERATION COMPRESSOR

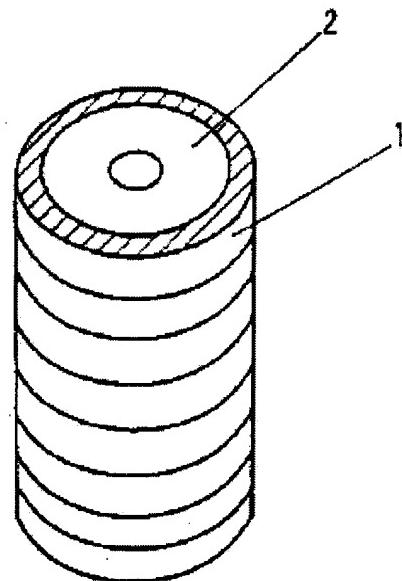
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Abstract of JP63069450

PURPOSE: To obtain a permanent magnet rotor for a hermetic motor excellent in cost performance and capable of mass production, by forming a resin magnet of magnetic powder having a composition of $R_{1-x}(Fe_{1-y}, By)_x$ and with resin superb in refrigerant-tightness.

CONSTITUTION: As a concrete instance of $R_{1-x}(Fe_{1-y}, By)_x$, composite alloy of Nd0.14 (Fe0.95, B0.05)0.86 is dissolved and quenched flakes are fabricated by liquid quenching. Magnetic powder is then made available crushed into not larger than about 125μm in particle size. Proper additive is added to this magnetic powder, with which epoxy resin with oil absorptive function is mixed so as to be about 3 weight portion and kneaded to make resin magnet material. With a molding machine this material is molded into a definite shape and heated and hardened after taken out of a metallic mould. This resin magnet 1 is laminated in designated numbers and fixed to an iron core 2 with adhesive to fabricate a permanent magnet rotor.



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